The Solution is IBM

IBM Personal System/2 Pocket Guide

IBM

September 1989

All about the PS/2 Family...

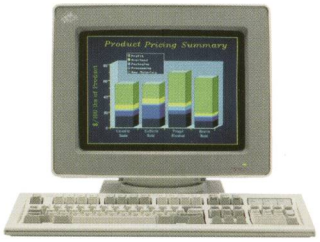
Use this handy pocket guide as a quick and convenient source of information about IBM Personal System/2.® It provides concise descriptions of the features and benefits of every model in the family, as well as charts that let you check specifications at a glance.

Whatever your needs, there's an IBM Personal System/2 to meet them

PS/2 Model 25
(Model 25 with fixed disk option shown above)

PS/2 Model 30 286
(Also available as Model 30 with 8086 processor)

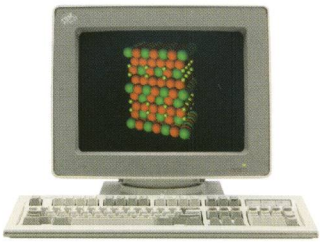
PS/2 Model 50 Z



PS/2 Model 60

PS/2 Model 55 SX

PS/2 Model P70 386



PS/2
Model 80 386

PS/2 Model 70 386

Model 25

Standard 8525-001, -004, -G01 and -G04
LAN Station 8525-L01 and -L04

At a glance

Model type	Standard	LAN Station
8086 micro-processor	8 MHz, 0 wait states, 16-bit memory data bus	8 MHz, 0 wait states, 16-bit memory data bus
Optional 8087 Math Co-Processor	8 MHz	8 MHz
Memory (RAM)		
Standard	512Kb (150ns)	640Kb (150ns)
Maximum	640Kb	640Kb
Integrated functions	64Kb permanent memory (ROM), MultiColor Graphics Array (MCGA), serial port, parallel port, pointing device port, keyboard port, earphone connector	
System expansion	Standard: One full-size[1] and one 8-inch expansion slot available LAN Station: 8-inch expansion slot	
Operating system	DOS 3.3 or 4.0	DOS 3.3 or 4.0
Storage		
720Kb 3.5-inch diskette drives		
Standard	1	1
Maximum	2	2
Optional	Second 720Kb diskette drive, 20Mb fixed disk, IBM 5.25" External Diskette Drive Model 4869-001, IBM 3363 Optical Disk Drive	
Text/graphics support	MCGA supports existing color graphics modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)	
Display modes	All CGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 x 2 colors—all points addressable 16 colors—8 x 16 character box (text)	
Keyboards	IBM Space Saving Keyboard: 84 keys, including 12 function keys; 5-foot coiled cable (-001, -004) IBM PS/2® Enhanced Keyboard: 101 keys, including 3 lighted mode indicators; 6-foot coiled cable (-G01, -G04, -L01, -L04)	
Displays	12-inch (diagonal measurement) monochrome (-001, -G01, -L01) or color (-004, -G04, -L04) display	
Supported printers	IBM Proprinter™ family, IBM Quietwriter® Printers, IBM Page Printer II, IBM Quickwriter® Printer, IBM Wheelprinter family	
Communications support	IBM Token-Ring Network, IBM PC Network, IBM PC Network Baseband, 3278/79 Emulation, 5250 Emulation	
Power supply	90-watt (-001, -G01, -L01) or 115-watt (-004, -G04, -L04);[2] 50-60 Hz; switchable between low range (90-137 VAC) and high range (180-259 VAC)	
Size	Approx. 15"H x 12.6"W x 14.8"D (382mm x 320mm x 375mm); 31 lbs. (14 kg) monochrome units, 36 lbs. (16 kg) color units[3]	

Feature	Function	Benefit
Intel 8086 microprocessor	Processes data at a clock speed of 8 MHz; 16-bit memory data bus	High-speed, high-performance computing
Zero wait states	Give processor instant access to information from memory	Faster, more efficient personal computing
512Kb or 640Kb of memory (RAM)	Provides electronic workspace to hold programs and files	Rapid data processing; management of complicated tasks such as spreadsheets
Integrated functions and streamlined design	Pack more capabilities into fewer components; reduce footprint; combine system and display into a single unit; use fewer internal cables and connections; include 64Kb of permanent memory containing BASIC language interpreter and Power-on Self-test	Better price/performance; suitability for small or crowded spaces; simplified setup, operation and expansion; enhanced reliability; built-in programming aids; quick problem identification
720Kb 3.5-inch diskette drive	Stores up to 360 pages[4] of information on a high-density diskette	Ability to create portable and backup files
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Built-in MCGA capabilities	Include up to 256 colors (from a palette of over 256,000) plus monochrome palette of 64 shades of gray	High-detail color or monochrome graphics and text; improved onscreen readability
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
Network and host emulation capabilities	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch external diskette drive option	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360Kb diskettes
Fixed disk drive option	Provides an additional 20Mb of storage	Easy expansion of fixed disk storage capability
200Mb optical disk drive option	Writes once, reads many times; holds up to 100,000 pages[4] of information on one cartridge	Fixed disk backup; large permanent storage; removable media for archiving
IBM support and service	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service
Simplified power system	Uses only one power cable and plug; provides a convenient outlet for printer	Quick and simple setup; no need for multiple outlets; convenient movement from one location to another; neater appearance due to fewer cables
IBM Space Saving Keyboard	Requires less space on desktop; has 84 keys, including 12 function keys	More room on desktop for files, papers or books; simplified command entry
Two expansion slots	Accept one full-size (except LAN Station Models 25-L01 and -L04) and one 8-inch expansion card	System growth potential to keep pace with changing needs
Bolt-down feature	Secures entire unit in place on table or desk	Less possibility of unauthorized removal

Model 30

30-001 and -021

At a glance

Machine numbers	8530-001	8530-021
8086 microprocessor	8 MHz, 0 wait states	8 MHz, 0 wait states
Optional 8087 Math Co-Processor	8 MHz	8 MHz
Memory (RAM)		
On system board	640Kb	640Kb
System maximum	2Mb	2Mb
Integrated functions	64Kb permanent memory (ROM), MultiColor Graphics Array (MCGA), display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar	
System expansion	Three available 8-bit expansion slots	
Operating system	DOS 3.3 or 4.0	
Storage		
Standard	One 720Kb 3.5-inch diskette drive	One 720Kb 3.5-inch diskette drive and a 20Mb (80ms) fixed disk
Optional	Second IBM 720Kb 3.5-inch Diskette Drive (-001), IBM 20Mb or 30Mb Fixed Disk Drive (-001), IBM 5.25" External Diskette Drive (360Kb), IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive	
Text/graphics support	MCGA supports CGA mode and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)	
Display modes	All CGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 x 2 colors—all points addressable 8 x 16 character box—16 colors (text)	
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable	
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Displays 8503, 8506, 8507 and 8508	
Supported printers	IBM Proprinter family, IBM Quietwriter Printers, IBM Page Printer II, IBM Quickwriter Printer, IBM Wheelprinter family	
Communications support	IBM Token-Ring Network PC Adapter, IBM PC Network Adapter II, IBM PC Network Baseband Adapter, IBM 3270 Emulation Adapter, IBM 5250 Emulation Adapter	
Power supply	70-watt worldwide with switch voltage selection	
Size	Approx. 4"H x 16"W x 15.6"D (102mm x 406mm x 397mm); 17.5 lbs. (7.9 kg)	

Feature	Function	Benefit
Intel 8086 microprocessor	Processes data at a clock speed of 8 MHz	Enhanced performance contributing to greater system throughput
Zero wait states	Give processor instant access to information from memory	Faster, more efficient personal computing
640Kb of memory (RAM) on the system board	Provides electronic workspace for programs and files	Fast data processing; management of complicated tasks like spreadsheet processing
Integrated functions and streamlined design	Pack more capabilities into fewer components; reduce overall size; require fewer internal cables; include 64Kb of permanent memory containing BASIC language interpreter and Power-on Self-test	Easy setup, operation and expansion; efficient use of workspace; enhanced reliability; built-in programming aids; quick problem identification
Internal fixed disk drives	Provide 20Mb or 30Mb of storage for up to 10,000 or 15,000 pages[4] of information; 80ms or 39ms average access (based on model); user-selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications and data bases; enhanced throughput via reduced storage and retrieval time on fixed disk
720Kb 3.5-inch diskette drive	Provides storage for up to 360 pages[4] of information	Ability to create portable and backup files
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Built-in MCGA capabilities	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome); support MCGA modes as well as CGA	High-quality, high-detail graphics and text; improved onscreen readability; protection of investment in CGA-based software
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
Network and host emulation capabilities	With the appropriate hardware and software, offer connection to network services and larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch external diskette drive option	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360Kb diskettes
200Mb optical disk drive option	Writes once, reads many times; holds up to 100,000 pages[4] of information on one cartridge	Large permanent storage; fixed disk backup; software archiving
Tape drive options	Save/restore fixed disk data	Fixed disk backup and file restoration; removable media for archiving
IBM support and service	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service

Model 30 286

8530-E01, -E21 and -E31

At a glance

Machine numbers	**8530-E01, -E21 and -E31**
80286 microprocessor	10 MHz, 1 wait state
Optional 80287 Math Co-Processor	10 MHz
Memory (RAM)	
On system board	1Mb, expandable to 2Mb or 4Mb
System maximum	16Mb
Integrated functions	128Kb permanent memory (ROM), Video Graphics Array (VGA) display port, serial port, parallel port, pointing device port, keyboard port and diskette controller, clock/calendar
System expansion	Three available 16-bit expansion slots
Operating systems	DOS 3.3 or 4.0, IBM Operating System/2™ (entry-level environment only)
Storage	
Standard	One 1.44Mb 3.5-inch diskette drive; 20Mb (27ms) fixed disk (-E21) or 30Mb (27ms) fixed disk (-E31)
Optional	A second 1.44Mb diskette drive, 20Mb or 30Mb fixed disk drive (-E01 only); IBM 5.25" External Diskette Drive (4869-001), IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive
Text/graphics support	VGA supports CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)
Display modes	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 x 16 colors—all points addressable 9 x 16 character box—16 colors (text)
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Displays 8503, 8506, 8507 and 8508
Supported printers	IBM Proprinter family, IBM Quietwriter Printers, IBM Page Printer II, IBM Quickwriter Printer, IBM Wheelprinter family
Communications support	IBM Token-Ring Network 16/4 Adapter, IBM PC Network Adapter II, IBM PC Network Baseband Adapter, IBM 3270 Emulation Adapter, IBM 5250 Emulation Adapter
Power supply	90-watt worldwide with switch voltage selection
Size	Approx. 4"H x 16"W x 15.6"D (102mm x 406mm x 397mm); 19 lbs. (8.6 kg)

Feature	Function	Benefit
Intel 80286 microprocessor	Processes data at a clock speed of 10 MHz	Enhanced performance contributing to greater system throughput
1Mb standard memory (RAM) on the system board; expandable to 2Mb or 4Mb	Provides electronic workspace for programs and files plus room to grow; expandable to a system maximum of 16Mb	Fast data processing; support for advanced applications; capability to keep pace with changing needs
Integrated functions and streamlined design	Pack more capabilities into fewer components; reduce overall size; require fewer internal cables; include 128Kb of permanent memory containing BASIC language interpreter and Power-on Self-test	Easy setup, operation and expansion; efficient use of workspace; enhanced reliability; built-in programming aids; quick problem identification
Internal fixed disk drive	Provides 20Mb or 30Mb of storage for up to 10,000 or 15,000 pages[4] of information; 27ms average access; user-selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications and data bases; enhanced throughput via reduced storage and retrieval time on fixed disk
1.44Mb 3.5-inch diskette drive	Stores up to 720 pages[4] of information on a double-sided diskette; reads/writes to and from both 1.44Mb and 720Kb diskettes	Efficient, reliable data storage; flexibility
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Integrated VGA capabilities	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome); support VGA modes as well as EGA, CGA and MCGA	High-quality, high-detail graphics and text; improved onscreen readability; protection of investment in EGA- and CGA-based software
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
Network and host emulation capabilities	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch external diskette drive option	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360Kb diskettes
Fixed disk drive options	Provide an additional 20Mb or 30Mb of storage	Easy expansion of fixed disk storage capability
200Mb optical disk drive option	Writes once, reads many times; holds up to 100,000 pages[4] of information on one cartridge	Large permanent storage; fixed disk backup; software archiving
Tape drive option	Saves/restores fixed disk data	Fixed disk backup and file restoration; removable media for archiving
IBM support and service	Assure parts and service nationwide, offer 12-month limited warranty	Customer purchase backed by IBM support and service

Model 50 Z

8550-031 and -061

At a glance

Machine numbers	8550-031	8550-061
80286 microprocessor	10 MHz, 0 wait states	10 MHz, 0 wait states
Optional 80287 Math Co-Processor	10 MHz	10 MHz
Memory (RAM)		
Standard	1Mb (85ns)	1Mb (85ns)
Maximum on system board	2Mb	2Mb
System maximum	16Mb	16Mb
Integrated functions	128Kb permanent memory (ROM), Video Graphics Array (VGA) display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar	
System expansion	Three available expansion slots	
Operating systems	DOS 3.3 or 4.0, IBM Operating System/2	
Storage		
1.44Mb 3.5-inch diskette drives		
Standard	1	1
Maximum	2	2
Fixed disk		
Standard	30Mb (39ms)	60Mb (27ms)
Maximum	60Mb	60Mb
Optional	Either a second 1.44Mb diskette drive or IBM 5.25" External Diskette Drive or IBM Personal System/2 Internal Tape Backup Unit; IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive	
Text/graphics support	VGA supports 640 x 480 graphics mode plus all CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)	
Display modes	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)	
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable	
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Displays 8503, 8506, 8507 and 8508	
Supported printers	IBM Proprinter family, IBM Quietwriter Printers, IBM Page Printer II, IBM Quickwriter Printer, IBM Wheelprinter family	
Communications support	IBM Token-Ring Network Adapter/A and 16/4 Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38™ Workstation Emulation Adapter/A, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiport/2	
Power supply	94-watt worldwide autosensing and autoswitching	
Size	Approx. 5.5"H x 14"W x 16"D (140mm x 360mm x 420mm); 21 lbs. (9 kg)	

Feature	Function	Benefit
Intel 80286 microprocessor	Processes data at a clock speed of 10 MHz	Enhanced performance contributing to greater system throughput
Zero wait states	Give processor instant access to information from memory	Faster, more efficient personal computing
128Kb of permanent memory	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
1Mb of memory (RAM), expandable to 16Mb with expansion options	Provides electronic workspace for programs and files, and/or for multiple applications	Rapid data processing; support for advanced applications, including multitasking/multiuser applications and network services
Micro Channel™ architecture	Executes multiple input/output operations at the same time	Improved productivity, foundation for future growth
Integrated functions and streamlined design	Pack more capabilities into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
Internal fixed disk drives	Provide 30Mb or 60Mb of storage for up to 15,000 or 30,000 pages[4] of information; 27ms or 39ms average access (based on model); user-selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications and data bases; enhanced throughput via reduced storage and retrieval time on fixed disk
1.44Mb 3.5-inch diskette drive	Stores up to 720 pages[4] of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Built-in VGA capabilities	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome); support for new modes of display	High-quality, high-detail graphics and text; improved onscreen readability
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
Network and host emulation capabilities	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch external diskette drive option	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360Kb and 1.2Mb diskettes
200Mb optical disk drive option	Writes once, reads many times; holds up to 100,000 pages[4] of information on one cartridge	Fixed disk backup; large permanent storage; removable media for archiving
Tape drive options	Save/restore fixed disk data	Fixed disk backup and file restoration; removable media for archiving
IBM support and service	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM

Model 55 SX

8555-031 and -061

At a glance

Machine numbers	8555-031	8555-061
80386SX™ microprocessor	16 MHz, 0-2 wait states	16 MHz, 0-2 wait states
Optional 80387SX Math Co-Processor	16 MHz	16 MHz
Memory (RAM)		
Standard	2Mb	2Mb
Maximum on system board	4Mb	4Mb
System maximum	16Mb	16Mb
Integrated functions	128Kb permanent memory (ROM), Video Graphics Array (VGA) display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar	
System expansion	Three 16-bit expansion slots	
Operating systems	DOS 3.3 or 4.0, IBM Operating System/2 Standard and Extended Editions, AIX™ Personal System/2[5]	
Storage		
1.44Mb 3.5-inch diskette drives	1	1
Fixed disk		
Standard	30Mb (39ms)	60Mb (27ms)
Optional	IBM 5.25" External Diskette Drive, IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive	
Text/graphics support	VGA supports 640 x 480 graphics mode plus all CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)	
Display modes	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)	
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable	
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Displays 8503, 8506, 8507 and 8508	
Supported printers	IBM Proprinter family, IBM Quietwriter Printers, IBM Page Printer II, IBM Quickwriter Printer, IBM Wheelprinter family	
Communications support	IBM Token-Ring Network Adapter/A and 16/4 Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter/A, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiport/2	
Power supply	90-watt worldwide	
Size	Approx. 4.0"H x 16"W x 15.6"D (102mm x 406mm x 397mm); 19 lbs. (8.6 kg)	

Feature	Function	Benefit
Intel 80386SX microprocessor	Processes 386 instruction set at 16 MHz; uses a 16-bit data path	Enhanced price/performance; ability to take advantage of 386 instruction set
128Kb of permanent memory	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
2Mb of memory (RAM), expandable to 16Mb with memory expansion options	Provides electronic workspace for programs and files and/or for multiple applications	Rapid data processing; support for advanced applications, including multitasking/multiuser applications and network services
Micro Channel architecture	Executes multiple input/output operations at the same time	Improved productivity; foundation for future growth
Integrated functions and streamlined design	Pack more capabilites into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
Internal fixed disk drives	Provide 30Mb or 60Mb of storage for up to 15,000 or 30,000 pages[4] of information; 39ms or 27ms average access, respectively; user-selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications and data bases; enhanced throughput via reduced storage and retrieval time on fixed disk
1.44Mb 3.5-inch diskette drive	Stores up to 720 pages[4] of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Built-in VGA capabilities	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome)	High-quality, high-detail graphics and text; improved onscreen readability
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
Network and host emulation capabilities	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch external diskette drive option	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360Kb and 1.2Mb diskettes
200Mb optical disk drive option	Writes once, reads many times; holds up to 100,000 pages[4] of information on one cartridge	Fixed disk backup; large permanent storage; removable media for archiving
Tape drive options	Save/restore fixed disk data	Fixed disk backup and file restoration; removable media for archiving
IBM support and service	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM

Model 60

8560-041 and -071

At a glance

Machine numbers	8560-041	8560-071
80286 microprocessor	10 MHz, 1 wait state	10 MHz, 1 wait state
Optional 80287 Math Co-Processor	10 MHz	10 MHz
Memory (RAM)		
Standard	1Mb (85ns)	1Mb (85ns)
System maximum	16Mb	16Mb
Integrated functions	128Kb permanent memory (ROM), Video Graphics Array (VGA) display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar	
System expansion	Seven available expansion slots	
Operating systems	DOS 3.3 or 4.0, IBM Operating System/2	
Storage		
1.44Mb 3.5-inch diskette drives		
Standard	1	1
Maximum	2	2
Fixed disk		
Standard	44Mb (40ms)	70Mb (30ms)
Optional	44Mb	70, 115Mb
Also optional	Either a second 1.44Mb diskette or IBM 5.25" External Diskette Drive, 5.25" Internal Diskette Drive, IBM Internal Tape Backup Unit, IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive	
Text/graphics support	VGA supports CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)	
Display modes	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)	
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable	
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Displays 8503, 8506, 8507 and 8508	
Supported printers	IBM Proprinter family, IBM Quietwriter Printers, IBM Page Printer II, IBM Quickwriter Printer, IBM Wheelprinter family	
Communications support	IBM Token-Ring Network Adapter/A and 16/4 Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter/A, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiport/2	
Power supply	207-watt (-041) or 225-watt (-071) worldwide autosensing and autoswitching	
Size	Approx. 23.5"H x 6.5"W x 19"D (597mm x 166mm x 482mm); 47 lbs. (21.3 kg)	

Feature	Function	Benefit
Intel 80286 microprocessor	Processes 286 instruction set at 10 MHz; uses a 16-bit data path	Enhanced performance contributing to greater system throughput
128Kb of permanent memory	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
1Mb of memory (RAM), expandable to 16Mb with expansion options	Provides electronic workspace for programs and files and/or for multiple applications	Rapid data processing; support for advanced applications, including multitasking/multiuser applications and network services
Micro Channel architecture	Executes multiple input/output operations at the same time	Improved productivity; foundation for future growth
Integrated functions and streamlined design	Pack more capabilites into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
Internal fixed disk drives	Provide 44Mb or 70Mb of storage for up to 22,000 or 35,000 pages[4] of information, respectively; 40ms or 30ms average access (based on model); user selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications, large data bases, and network services; enhanced throughput via reduced storage and retrieval time on fixed disk
1.44Mb 3.5-inch diskette drive	Stores up to 720 pages[4] of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Built-in VGA capabilities	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome)	High-quality, high-detail graphics and text; improved onscreen readability
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
Network and host emulation capabilities	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch internal/external diskette drive options	Provide capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360Kb and 1.2Mb diskettes
Fixed disk drive options	Provide an additional 44Mb, 70Mb or 115Mb of storage (based on model)	Easy expansion of fixed disk storage capability
200Mb optical disk drive option	Writes once, reads many times; holds up to 100,000 pages[4] of information on one cartridge	Large permanent storage; fixed backup; software archiving
Tape drive options	Save/restore fixed disk data	Fixed disk backup and file restoration; removable media for archiving
IBM support and service	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service

Model P70 386

8673-061 and -121

At a glance

Machine numbers	8673-061	8673-121
80386™ microprocessor	20 MHz, 0-2 wait states	20 MHz, 0-2 wait states
Optional 80387 Math Co-Processor	20 MHz	20 MHz
Memory (RAM)[6]		
Standard	4Mb (85ns)	4Mb (85ns)
Maximum on system board	8Mb	8Mb
System maximum	16Mb	16Mb
Integrated display	16-gray-level gas plasma; high contrast ratio; dark background	
Integrated functions	128Kb permanent memory (ROM), clock/calendar, Video Graphics Array (VGA) display port, serial port, parallel port, pointing device port, keyboard port, ESDI disk controller and diskette controller with external storage device port	
System expansion	Two available expansion slots (one 32-bit full-size; one 16-bit half-size)	
Operating system	DOS 3.3 or 4.0, IBM Operating System/2, AIX PS/2	
Storage		
Standard	One 1.44Mb 3.5-inch diskette drive, 60Mb (27ms) fixed disk	One 1.44Mb 3.5-inch diskette drive, 120Mb (23ms) fixed disk
Optional	IBM 1.2Mb 5.25″ External Diskette Drive (supported via an adapter card), IBM 360Kb 5.25″ External Diskette Drive (supported via the external storage device port and a cable connector), IBM 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive	
Text/graphics support	VGA supports 640 x 480 graphics mode plus all CGA, EGA and MCGA modes and provides up to 16 gray levels (gas plasma), 64 shades of gray (monochrome), or 256 colors from a palette of over 256,000 (color)	
Display modes		
Gas plasma integrated display	VGA, CGA, EGA and MCGA compatibility, including 640 x 480 pels x 16 gray levels	
Color/monochrome external displays	All VGA, CGA, EGA and MCGA modes, including: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)	
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 14″ coiled cable	
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514 (VGA mode only); IBM Personal System/2 Monochrome Displays 8503, 8506, 8507 and 8508 (VGA mode only)	
Supported printers	IBM Proprinter family, IBM Quietwriter Printers, IBM Page Printer II, IBM Quickwriter Printer, IBM Wheelprinter family	
Communications support	IBM 300/1200/2400 Internal Modem/A, IBM 300/1200 Internal Modem/A, IBM Token-Ring Network Adapter/A and 16/4 Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Adapter/A Frequency 2/Frequency 3, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter/A, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, ROLMphone® 244PC	
Power supply	85-watt worldwide autosensing and autoswitching	
Size	Approx. 12″H x 18.3″W x 5″D (305mm x 465mm x 126mm); approx. 20 lbs. (9 kg)	

Feature	Function	Benefit
Intel 80386 microprocessor	Processes data at a clock speed of 20 MHz	Capability to handle the most intensive computing applications and process large amounts of data in small amounts of time
128Kb of permanent memory	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
4Mb of memory (RAM),[6] expandable to 16Mb with memory expansion options	Access rate of 85 nanoseconds; provides electronic workspace for lengthy programs and files, and/or mutliple applications	Rapid data processing; support for advanced applications, including multitasking applications and network services
Micro Channel architecture	Executes multiple input/output operation at the same time	Improved productivity; foundation for future growth
Portability	Provides high levels of processing power and display performance in an easy-to-carry machine; has an optional carrying case	Capability to do advanced computing in any location where AC power is available
16-gray-level gas plasma display	Presents sharp, clear text and graphics; preserves shading and contrast of images	Easily readable text and graphics; convenient way to present information and graphics on the spot
Integrated functions and streamlined design	Pack more capabilities into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
Internal fixed disk drives	Provide 60Mb or 120Mb of storage for up to 30,000 or 60,000 pages[4] of information; 27ms or 23ms average access (based on model); user-selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications, large data bases, and network services; enhanced throughput via reduced storage and retrieval time on fixed disks
1.44Mb 3.5-inch diskette drive	Front-loading; stores up to 720 pages[4] of information on a double-sided diskette	Easy access; high-density storage
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Built-in VGA capabilities	Include up to 16 gray levels (plasma) or 64 shades of gray (monochrome) plus 256 colors from a palette of over 256,000 (color)	High-quality, high-detail graphics and text
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of keystroke errors
Network and host capabilities	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch external diskette drive options	Provide capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360Kb and 1.2Mb diskettes
200Mb optical disk drive option	Writes once, reads many times; holds up to 100,000 pages[4] of information on one cartridge	Large permanent storage; fixed disk backup; software archiving
Tape drive options	Save/restore fixed disk data	Fixed disk backup and file restoration; removable media for archiving
IBM support and service	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service

Model 70 386

8570-E61, -061, -121, -A61 and -A21

At a glance

Machine numbers	8570-E61	8570-061 & -121	8570-A61 & -A21
80386 microprocessor	16 MHz, 0-2 wait states	20 MHz, 0-2 wait states	25 MHz, 64Kb memory cache (25ns)
Optional i486™ microprocessor upgrade	25 MHz; integrated 8Kb memory cache and math co-processor (-A61 and -A21 only)		
Optional 80387 Math Co-Processor	16 MHz	20 MHz	25 MHz
Memory (RAM)[6]			
Standard	2Mb (100ns)	2Mb (85ns)	2Mb (80ns)
Maximum on system board	6Mb	6Mb	8Mb
System maximum	16Mb	16Mb	16Mb
Integrated functions	128Kb permanent memory (ROM), Video Graphics Array (VGA) display port, serial port, parallel port, pointing device port, keyboard port and diskette controller, clock/calendar		
System expansion	Three available expansion slots (two 32-bit, one 16-bit)		
Operating systems	DOS 3.3 or 4.0, IBM Operating System/2, AIX Personal System/2		
Storage			
1.44Mb 3.5-inch diskette drives			
Standard	1	1	1
Maximum	2	2	2
Fixed disk			
Standard	60Mb (27ms)	-061: 60Mb (27ms) -121: 120Mb (23ms)	-A61: 60Mb (27ms) -A21: 120Mb (23ms)
Optional	A second 1.44Mb diskette drive or IBM Personal System/2 Internal Tape Backup Unit, IBM 5.25" External Diskette Drive, 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive		
Text/graphics support	VGA supports CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)		
Display modes	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)		
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable		
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Displays 8503, 8506, 8507 and 8508		
Supported printers	IBM Proprinter family, IBM Quietwriter Printers, IBM Page Printer II, IBM Quickwriter Printer, IBM Wheelprinter family		
Communications support	IBM Token-Ring Network Adapter/A and 16/4 Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter/A, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiport/2		
Power supply	132-watt worldwide autosensing and autoswitching		
Size	Approx. 5.5"H x 14.2"W x 16.5"D (140mm x 360mm x 420mm); 21 lbs. (9 kg)		

Feature	Function	Benefit
Intel 80386 microprocessor	Processes data at a clock speed of 16 MHz (-E61) or 20 MHz (-061 and -121) or 25 MHz (-A61 and -A21)	Capability to handle the most intensive computing applications and process large amounts of data in small amounts of time
64Kb memory cache	Stores frequently used data for the processor to access with zero wait states	Significant improvement in overall system performance
128Kb of permanent memory	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
2Mb of memory (RAM),[6] expandable to 16Mb with memory expansion options	Access rate of 80, 85 and 100 nanoseconds (based on model); provides electronic workspace for lengthy programs and files, and/or multiple applications	Rapid data processing; support for advanced applications, including multitasking/multiuser applications and network services
Micro Channel architecture	Executes multiple input/output operations at the same time	Improved productivity; foundation for future growth
Integrated functions and streamlined design	Pack more capabilities into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
Internal fixed disk drives	Provide 60Mb or 120Mb of storage for up to 30,000 or 60,000 pages[4] of information; 27ms or 23ms average access (based on model); user-selectable software disk cache memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications, large data bases, and network services; enhanced throughput via reduced storage and retrieval time on fixed disks
1.44Mb 3.5-inch diskette drive	Stores up to 720 pages[4] of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Built-in VGA capabilities	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome)	High-quality, high-detail graphics and text; improved onscreen readability
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
Network and host emulation capabilities	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch external diskette drive option	Provides capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360Kb and 1.2Mb diskettes
200Mb optical disk drive option	Writes once, reads many times; holds up to 100,000 pages[4] of information on one cartridge	Large permanent storage; fixed backup; software archiving
Tape drive options	Save/restore fixed disk data	Fixed disk backup and file restoration; removable media for archiving
IBM support and service	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service

Model 80 386

8580-041, -071, -111 and -311

At a glance

Machine numbers	8580-041	8580-071	8580-111	8580-311
80386 microprocessor	16 MHz, 1 wait state	16 MHz, 1 wait state	20 MHz, 0-2 wait states	20 MHz, 0-2 wait states
Optional 80387 Math Co-Processor	16 MHz	16 MHz	20 MHz	20 MHz
Memory (RAM)[6]				
Standard	1Mb(80ns)	2Mb(80ns)	2Mb(80ns)	2Mb(80ns)
Maximum on system board	2Mb	2Mb	4Mb	4Mb
System maximum	16Mb	16Mb	16Mb	16Mb
Integrated functions	128Kb permanent memory (ROM), Video Graphics Array (VGA) display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar			
System expansion	Seven available expansion slots			
Operating systems	DOS 3.3 or 4.0, IBM Operating System/2, AIX Personal System/2			
Storage				
1.44Mb 3.5-inch diskette drives				
Standard	1	1	1	1
Maximum	2	2	2	2
Fixed disk				
Standard	44Mb (40ms)	70Mb (30ms)	115Mb (26ms)	314Mb (23ms)
Optional	44Mb	70, 115, 314Mb	70, 115, 314Mb	70, 115, 314Mb
Also Optional	A second 1.44Mb diskette drive or IBM Personal System/2 Internal Tape Backup Unit, IBM 5.25" External Diskette Drive, 3363 Optical Disk Drive, IBM 6157 Streaming Tape Drive			
Text/graphics support	VGA supports 640 x 480 graphics mode plus all CGA, EGA and MCGA modes and provides up to 256 colors (from a palette of over 256,000) and 64 shades of gray (monochrome)			
Display modes	All CGA and EGA modes plus: 320 x 200 pels x 256 colors—all points addressable 640 x 480 pels x 16 colors—all points addressable 9 x 16 character box—16 colors (text)			
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable			
Supported displays	IBM Personal System/2 Color Displays 8512, 8513 and 8514; IBM Personal System/2 Monochrome Displays 8503, 8506, 8507 and 8508			
Supported printers	IBM Proprinter family, IBM Quietwriter Printers, IBM Page Printer II, IBM Quickwriter Printer, IBM Wheelprinter family			
Communications support	IBM Token-Ring Network Adapter/A, IBM PC Network Adapter II/A, IBM PC Network Baseband Adapter/A, IBM 3270 Connection, IBM System 36/38 Workstation Emulation Adapter, IBM Dual Async Adapter/A, IBM Multi-Protocol Adapter/A, IBM 300/1200 Internal Modem/A, IBM Realtime Interface Co-Processor Multiport/2			
Power supply	225-watt worldwide autosensing and autoswitching			
Size	Approx. 23.5"H x 6.5"W x 19"D (597mm x 166mm x 482mm); 58 lbs. (26 kg)			

Feature	Function	Benefit
Intel 80386 microprocessor	Processes data at a clock speed of 16 MHz (-041 and -071) or 20 MHz (-111 and -311)	Capability to handle the most intensive computing applications and process large amounts of data in small amounts of time
128Kb of permanent memory	Includes security features and Advanced BIOS functions	Data and program security; support for concurrent operations
1Mb or 2Mb of memory (RAM),[6] expandable to 16Mb with memory expansion options	Access rate of 80 nanoseconds; provides electronic workspace for lengthy programs and files, and/or multiple applications	Rapid data processing; support for advanced applications, including multitasking/multiuser applications and network services
Micro Channel architecture	Executes multiple input/output operations at the same time	Improved productivity; foundation for future growth
Integrated functions and streamlined design	Pack more capabilites into fewer components using Surface Mount Technology (SMT) and Very Large-Scale Integration (VLSI)	Easy setup, operation and expansion; better price/performance; enhanced reliability
Internal fixed disk drives and integrated controllers	Provide 44Mb, 70Mb, 115Mb or 314Mb of storage; 40ms, 30ms, 26ms or 23ms average access (based on model); user-selectable cache software disk memory; 1:1 disk interleave factor	Faster, more convenient access to programs and data than with diskettes; support for advanced applications, large data bases, and network services; enhanced throughput via reduced storage and retrieval time on fixed disks; support for expanded mass storage and multiple I/O devices
1.44Mb 3.5-inch diskette drive	Stores up to 720 pages[4] of information on a double-sided diskette; second diskette drive optional	High-density storage; low-profile drive
3.5-inch diskettes	Protect media in hard plastic enclosure	Smaller, more portable; reliable storage
Built-in VGA capabilities	Include up to 256 colors (from a palette of over 256,000) plus 64 shades of gray (monochrome)	High-quality, high-detail graphics and text; improved onscreen readability
IBM PS/2 Enhanced Keyboard	Has 101 keys, including 12 function keys and 3 lighted mode indicators	Simplified command entry; less chance of accidental printing or erasing
Network and host emulation capabilities	With the appropriate hardware and software, offer network services and connection to larger systems	Shared hardware and software; electronic mail capability; workgroup productivity benefits; access to mainframe functions, files and applications
5.25-inch internal/external diskette drive options	Provide capability to interchange data and software with systems that use 5.25-inch diskettes	Compatibility with IBM PC 360Kb and 1.2Mb 5.25-inch diskettes
Fixed disk drive options	Provide an additional 44Mb, 70Mb, 115Mb or 314Mb of storage (based on model)	Easy expansion of fixed disk storage capability
200Mb optical disk drive option	Writes once, reads many times; holds up to 100,000 pages[4] of information on one cartridge	Large permanent storage; fixed backup; software archiving
Tape drive options	Save/restore fixed disk data	Fixed disk backup and file restoration; media removable for archiving
IBM support and service	Assure parts and service nationwide; offer 12-month limited warranty	Customer purchase backed by IBM support and service

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[1] *Except LAN station models 25-L01 and -L04.*

[2] *Supplies power to both system and display.*

[3] *LAN station monochrome and color units weigh close to an additional 1 lb. each.*

[4] *8½ x 11-inch, double-spaced typewritten pages.*

[5] *AIX PS/2 support on the 8555-061 will be available fourth quarter 1989.*

[6] *128Kb of this memory is reserved for hardware system use.*

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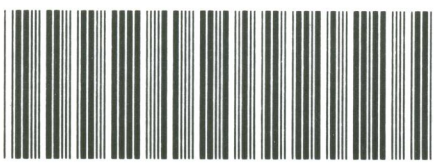

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